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2001 JAM **23 A** ♀ 55

January 20, 2001

Mr. Jim Loock, Chief Electric Engineer **Public Service Commission** 610 N. Whitney Way P.O. Box 7854 Madison, WI 53707-7854

RECUMUITO

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Electric Division

RE:

In the Matter of Filing Reporting Requirements for Appropriate Inspection and

Maintenance, PSC Rule 113.0607(6)

Dear Mr. Loock:

Enclosed for filing are 3 copies of New Holstein Utility's report to the commission, submitted every two years, showing compliance with its Preventative Maintenance Plan.

Very truly yours,

John Skurupey

Manager

Enclosures



PREVENTATIVE MAINTENANCE PLAN

New Holstein Utilities

RECEIVED

JAN 23 2001

Electric Division

FILING DEADLINE FEBRUARY 1, 2001

December 19, 2000

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This plan was prepared by the MEUW work group for PSC Rule 113.0607 for use by the 82 municipal electric utilities in Wisconsin and endorsed by PSC staff as meeting the requirements of Rule PSC 113.0607.

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I. Preventative Maintenance Plan

The PSC 113.0607 rule reads;

Appropriate inspection and maintenance: system reliability.

- (1) PREVENTATIVE MAINTENANCE PLAN. Each utility or other person subject to this chapter, including persons who own electric generating facilities in this state who provide service to utilities with contracts of five years or more, shall develop and have in place its own preventative maintenance plan. This section is applicable to electric generating facilities as set forth at s. 194.491(5)(a)(1), Stats. Each plan shall include, among other things, appropriate inspection, maintenance and replacement cycles where applicable for overhead and underground distribution plant, transmission, generation¹, and substation facilities.
- (2) CONTENTS OF THE PLAN. (a) *Performance standard*. The Preventative Maintenance Plan shall be designed to ensure high quality, safe, and reliable service, considering: cost, geography, weather, applicable codes, national electric industry practices, sound engineering judgment and experience.
- 1 PSC staff interpretation is that generation applies to individual generators equal to or greater than 50 MW.

II. Inspection Schedule and Methods:

The purpose of this plan is to maintain or improve the electrical system reliability with the objective of increased municipal loyalty and satisfaction from our constituents. The goals are to meet and exceed the schedules established in this plan.

Exception reporting (inspected equipment not in good condition) will be the method of documentation on all inspection forms.

The scope of this plan is traditional and uses proven maintenance techniques. Unique operating and maintenance philosophies have not been considered. Also, manufacturer defects will be dealt with as they are communicated to this utility.

EVERY

SCHEDULE:	MONTHLY	ANNUAL	5 YEARS
Transmission (≥69Kv and above)		X	X
Substations	X	X	
Distribution (OH & UG)			X

The inspection of Distribution facilities will be by individual substation circuits on a 5-year cycle such that the entire system will be inspected every 5 years. Inspector instructions for inspecting all facilities and forms are included with the plan.

METHODS: Five criteria groups will be used to complete the inspection of all facilities.

- 1. <u>IR</u> infrared thermography used to find poor electrical connections and/or oil flow problems in equipment.
- 2. <u>RFI</u> Radio Frequency Interference, a byproduct of loose hardware and connections, is checked using an AM radio receiver.
- 3. <u>SI</u> structural integrity of all supporting hardware including poles, crossarms, insulators, structures, bases, foundations, buildings, etc.
- 4. <u>Clearance</u> refers to proper spacing of conductors from objects, trees and other utility cables.
- 5. <u>EC</u> equipment condition on non-structural components such as circuit breakers, transformers, regulators, reclosers, relays, batteries, capacitors, etc.

III. Condition Rating Criteria:

This criterion, as listed below, establishes the condition of a facility and also determines the repair schedule to correct deficiencies.

- 0) Good condition
- 1) Good condition but aging
- 2) Non-critical maintenance required normally repair within 12 months
- 3) Priority maintenance required normally repair within 90 days
- 4) Urgent maintenance required report immediately to the utility and repair normally within 1 week

IV. Corrective Action Schedule

The rating criteria as listed above determine the corrective action schedule.

V. Record Keeping

All inspection forms and records will be retained for a minimum of 10 years. The inspection form contains all of the required critical information i.e. inspection dates, condition rating, schedule for repair and date of repair completion.

VI. Reporting Requirements

A report and summary of this plan's progress will be submitted every two years with the first report due to the Commission by February 1, 2003. The report will consist of a letter documenting the percent of inspections achieved compared to the schedule and a description of maintenance achieved within the scheduled time allowance.

VII DISTRIBUTION - OVERHEAD INSPECTION GUIDE

STRUCTURE

- Pole Condition
- Pole Leaning
- Crossarm Condition
- Insulators, Deadend, Pin
- Excess Fill or Soil Removal
- Pole Steps
- Grounds Intact
- Ground Molding
- Down Guys
- Guy Markers
- Guy Bonding/Insulator
- Signage Location Number, Warning Sign
- Customer Equipment
- Conductor
- Tie Wires
- U Guard/Conduit Condition

EQUIPMENT

- Transformers
 - ✓ Oil Leaks
 - ✓ Bushing Condition
 - ✓ Grounding/Bonding
- Capacitors
 - ✓ Fuses Blown
 - ✓ Bushing Condition
 - ✓ Oil Leaks
 - ✓ Tank Bulged
 - ✓ Switches, Oil, Vacuum
 - ✓ Control Conduit/Wiring
 - ✓ Grounding/Bonding
- Switches GOAB, Inline, Disconnect
 - ✓ Insulator Condition
 - ✓ Operating Handle/Locks
 - ✓ Linkage
 - ✓ Grounding/Bonding
 - ✓ Switch Number
- Cutouts
 - ✓ Insulator Condition
 - ✓ Fuse Size Tag

VII DISTRIBUTION - OVERHEAD INSPECTION GUIDE (con't)

EQUIPMENT (CON'T)

- Arrestor
 - ✓ Insulator Condition
 - ✓ Connections
 - ✓ Ground Lead Disconnection
- Cable Terminators
 - ✓ Insulator Condition
 - ✓ Grounding/Bonding

CLEARANCES

- Ground Line
- Buildings, Bridges, Swimming Pool, Etc.
- Communications Facilities
- Fuel Tanks
- Other Electric Utilities
- Transmission Lines
- Over Streets, Roads, Alleys, Highways
- Tree Trimming
 - ✓ Clearance From Line
 - ✓ Vines on Poles
 - ✓ Danger Trees

INFRARED SCAN

- Main Three-Phase Feeders
- Priority Overhead Transformer Banks
 - ✓ Bushing Connectors Primary
 - ✓ Bushing Connectors Secondary
 - ✓ General Tank Heating
- Current & Voltage Transformers if Applicable

RFI CHECK

OH system with AM radio as each circuit is inspected

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		Corrected By													
Ckt		Date Item Corrected													
Inspected by Sub	COMMENTS	Rating Criteria 0 Good Condition 1) Good Condition but aging 2) Non-critical Maintenance Required 3) Priority Maintenance Required 4) Urgent Maintenance Required													
<i>=</i>	<u> </u>	Communication Clearance			1										
	岁	Streets, Roads, Alleys													
	CLEARANCE	Building Clearances													
	ΙΨ	Ground Line Clearances		-		l									
Date_	ፘ	Tree Trimming		1											
		Street Light													
		Terminators													
	l le	Arresters													
	<u> </u>	Cutouts		1											
⋝	EQUIPMENT	Switches		\dagger											
<u>K</u>	"	Transformer		1 -	1-	1									
0	 -	KFI Check		1-	1	1									
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H		Customer Equipment		+	 			 							
Щ	,,,	Signs, Loc#, Warning		1	1	1									
SP	STRUCTURE	Guy Bond, Insulator	_	1											
Ë	E	Down Guys and Markers													<u> </u>
Z	l R	Grounds Intact, Molding													<u> </u>
<u>o</u>	ST	Pole Steps				1						<u> </u>			
5		Soil Conditions												ļ	<u> </u>
<u>M</u>	1	Insulators, DE, Pin												<u> </u>	
\mathbb{R}		Crossarm Condition								<u> </u>	_		<u> </u>	 	<u> </u>
S		Pole Condition/Leaning							<u> </u>			ļ	<u> </u>	ــــ	
OVERHEAD DISTRIBUTION INSPECTION FORM	MAP AREA	LOCATION													
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VIII DISTRIBUTION - UNDERGROUND INSPECTION GUIDE

STRUCTURAL (Exterior & Interior) Transformer, Primary Pedestal, Secondary Pedestal, Switchgear.

- Enclosure Condition
- Level/Leaning
- Security
- Grade/Accessibility (Shrubs, Customer Facilities, Fill/Excavation)
- Numbering
- Voids/Gaps
- Signage Location Number, Warning Sign
- Pad/Vault Condition

EQUIPMENT

- Transformers
 - ✓ Oil Leaks
 - ✓ Bushing Condition
 - ✓ Grounding/Bonding
 - ✓ Elbows
 - ✓ Arrestors
 - ✓ Feed-Through
 - ✓ Cable Condition
 - ✓ Secondary Connections
- Primary Pedestals
 - ✓ Elbows
 - ✓ Junction Condition
 - ✓ Grounding/Bonding
- Secondary Pedestals
 - ✓ Secondary Connections
- Switches URD Switchgear
 - ✓ Insulator Condition
 - ✓ Operating Handle Security
 - ✓ Linkage
 - ✓ Grounding/Bonding
 - ✓ Switch Number/Fuse Size & Number

INFRARED SCAN and RFI CHECK

- Main Three-Phase Feeders (Risers & Switchgear)
- Priority URD Transformer Banks
 - ✓ Bushing Connectors Primary
 - ✓ Bushing Connectors Secondary
 - ✓ General Tank Heating

6

	Corrected By																	
	Date Item Corrected																	
COMMENTS	Rating Criteria 0) Good Condition 1) Good Condition but aging 2) Non-critical Maintenance Required 3) Priority Maintenance Required 4) Urgent Maintenace Required																	
R / RFI Scan	Priority URD Transformers, Bushings and Tank heating							<u> </u>	ļ	ļ							<u> </u>	
IR/R	Main Three Phase Feeders, Risers & Switchgear										ļ					_		
	Switches, Signage, Insulators, Security, Linkage, Ground, Bonds																	
LN:	Secondary Pedestals, Connections											_					<u> </u>	
EQUIPMENT	Primary Pedestals, Elbows, Grounding, Bonds, Junction cond.																<u> </u>	
Ü	Transformers, Leaks, Bushings, Cable Grounding, Bonds, Elbows, Arrestors, Cable cond, Connections																	
	Pad / Vault Condition							_				_		\perp	-	_	1	
	Signage	_					<u> </u>	<u> </u>		-		\perp		-	-		\downarrow	$\frac{1}{2}$
٣	Voids / Gaps	╁	_			-		-	-	-	-	-	-	-		-	+	$\frac{1}{2}$
STRUCTURE	Vumbering	+-	-		-	-		-	-	-	-	-	-	-	-	-	+	4
STRU	Grade / Accessibility	\vdash	_	-	+	+	+	-		-	-	-	\perp	+		-	+	4
	Security	╁╌		-	+	-	-	+		+	-	+	+	+		+	+	\dashv
	Enclosure Condition	╁	-	+	-	+		+		+-	-		-	+	+	-	+	_
MAP ARFA	L	+																

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Inspected by

IX SUBSTATION - MONTHLY INSPECTION GUIDE

TRANSFORMER MAIN TANK:

- Oil in bushings
- Bushing and arrestor porcelain
 - ✓ Cracks or chips
 - ✓ Rust or dirt
- Oil leaks
 - ✓ Main tank
 - ✓ Sample valves
 - ✓ Radiators
- Radiator bank
 - √ warm on top, cool at bottom
- Tank pressure
- Tank oil level
- Temperature gauge
- Cooling fans

TRANSFORMER LTC or VOLTAGE REGULATORS:

- Tank oil level
- Drag hand positions
- Cabinet light
- Operation count
- Tank pressure
- Cabinet heater
- Cabinet contamination

TRANSMISSION CIRCUIT BREAKERS:

- OPEN/CLOSED indicator
- CHARGED/DISCHARGED indicator
- Cabinet light
- Cabinet heater
- Operations counter
- Bushings and supports
 - ✓ Cracks or chips
 - ✓ Rust or dirt
- Line and load side disconnect switches
 - ✓ Properly labeled
 - ✓ Aligned properly
- Handles grounded
- Emergency trip button
- Air / Oil compressors
- Air / Oil pressure gauge
- Spring operated mechanism
- Oil level gauge
- Tank oil leaks
- Reset switch
- Cabinet contamination
- Vents clean
- Gas pressures for GCBs

IX SUBSTATION - MONTHLY INSPECTION GUIDE (con't)

FEEDER CIRCUIT BREAKERS / RECLOSERS

- OPEN/CLOSED indicator
- CHARGED/DISCHARGED indicator
- Cabinet light
- Cabinet heater
- Operations counter
- Bushings and supports
 - ✓ Cracks or chips
 - ✓ Rust or dirt
- Line and load side disconnect switches
 - ✓ Labeled properly
 - ✓ Aligned properly
 - ✓ Handles grounded
- Emergency trip button
- Oil level gauge
- Tank oil leaks
- Reset switch
- Cabinet contamination
- Vents clean
- Gas pressures for GCBs

HIGH AND LOW VOLTAGE BUSS WORK:

- Bushing, insulator, arrestor, and support insulators
 - ✓ Chips or cracks✓ Rust or dirt
- Bird nests
- Potential transformers bushings
 - ✓ Cracks or chips
 - ✓ Rust or dirt
- Cable terminators
 - ✓ Leaking fluid
 - ✓ Cracks or chips

MANUAL SWITCHES:

- Properly labeled
- Ground connections
- Positioning and alignment
- Bushing and support insulators
 - ✓ Cracks or chips
 - ✓ Rust or dirt

MOTOR OPERATED SWITCHES:

- OPEN/CLOSED indicator
- Properly labeled
- Cabinet heater
- Operations counter

IX SUBSTATION - MONTHLY INSPECTION GUIDE (con't)

CONTROL HOUSE/MISCELLANEOUS:

- Clock displays proper time
- AC/DC load center breakers
- Room temperature
- Rodents
- Panels labeled properly
- Panel lights
- Annunciator panel
- Panel meters
- SCADA system RTU
- SCADA alarms
- Position indicators agree
- Relay target information
- Emergency contact directory & dial tone for phone
- Safety Equipment

BATTERY:

- Liquid levels
- Proper float voltage on charger and battery
- Specific gravity in pilot cell
- Personal Protective Equipment
- Connection corrosion
- Leaking cells
- Dated solution in eyewash station

YARD AND FENCE:

- Fire extinguisher charged
- Fence ground connections
- Fence secured
- Security and emergency lights
- Site base and grade
- Standing water
- Warning signs

MONTHL'	Y S	SUBSTAT	101	111	1SF	EC	CTIC	N FORM	
INSPECTED BY:									
DATE:									
SUBSTATION:									
TRANSFORMER MAIN TANK		RATING:	0	1	2	3	4	(Circle One)	
inspected	х		COV	имен	ITS			DATE CORRECTED	CORRECTED BY
Oil in Bushings									
Bushing and Arrestor									
Oil Leaks									
Main Tank									
Sample Valves									
Radiators	<u> </u>								
Radiator Bank									
Tank Pressure	1								
Tank Oil Level									
Temperature Gauge	<u> </u>								
Cooling Fans									
	1								
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TRANSFORMER LTC or VOLTAGE REGULATORS		RATING:	0	1	2	3	4	(Circle One)	
Tank Oil Level									
Drag Hand Positions									
Cabinet Light Operation Count			_						
Tank Pressure									
Cabinet Heater	$ \uparrow $								
Cabinet Contamination	1								
Sub-int Somarimidation	1						_		
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MONTHLY SU	BS	STATION I	NS!	PE	CT	101	I FORM	
INSPECTED BY:								
DATE:								
SUBSTATION:								
HIGH VOLTAGE CIRCUIT BREAKER / CIRCUIT SWITCHER		RATING: 0	1	2	3	4	(Circle One)	
inspected	x	CON	IMEN	TS			DATE CORRECTED	CORRECTED BY
OPEN/CLOSED Indicator								
CHARGED/DISCHARGED Indicator								
Cabinet Light								
Cabinet Heater								
Operations Counter								
Bushings and Supports								
Line and Load Side Disconnect Switches			**					
Handles Grounded								
Emergency Trip Button								
Air Compressors - Air / Oil								
Air Pressure Gauge - Air / Oil								
Spring Operated Mechanism								
Oil Level Gauge								
Tank Oil Leaks						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Reset Switch								
Cabinet Contamination								
Vents Clean								
Gas Pressures for GCBs								
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MONTHLY S	U	BSTATION INSPECTION	N FORM	
INSPECTED BY:				
DATE:				
SUBSTATION:				
FEEDER CIRCUIT BREAKER / RECLOSER		RATING: 0 1 2 3 4	(Circle One)	
inspected	X	COMMENTS	DATE CORRECTED	CORRECTED BY
OPEN/CLOSED Indicator				
CHARGED/DISCHARGED Indicator				
Cabinet Light				
Cabinet Heater				
Operations Counter				
Bushings and Supports				
Line and Load Side Disconnect Switches				
Emergency Trip Button				
Oil Level Gauge				
Tank Oil Leaks	\Box			
Reset Switch				
Cabinet Contamination				
Vents Clean				
Gas Pressures for GCBs				
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MONTHLY SUE	BSTATIC	N	INS	PE	CT	101	FORM	
INSPECTED BY:								
DATE:								
SUBSTATION:								
HIGH & LOW VOLTAGE BUSS WORK	RATING:	0	1	2	3	4	(Circle One)	
inspected X		COI	MMEN	ITS			DATE CORRECTED	CORRECTED BY
Bushing, Insulator, Arrestor, and Supports								
Bird Nests								
Transformer Bushings								
Cable Terminators								
]
MANUAL SWITCHES	RATING:	0	1	2	3	4	(Circle One)	
Properly Labeled			-					
Ground Connections								
Positioning and Alignment	1							
Bushings and Supports								
MOTOR OPERATED SWITCHES	RATING	: 0	1	2	3	4	(Circle One)	
OPEN/CLOSED Indicator								
Proper Labeling								
Cabinet Heater								
Operations Counter								<u> </u>
locking criteria								
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MONTHLY SU	BSTATIO	ON	IN	SP	EC	110	NFORM	
INSPECTED BY:								
DATE:								
SUBSTATION:								
CONTROL HOUSE/MISCELLANEOUS	RATING:	0	1	2	3	4	(Circle One)	
inspected X		COM	MEN	ITS			DATE CORRECTED	CORRECTED BY
Clock Displays Proper Time						<u> </u>		
AC/DC Load Center Breakers								
Room Temperature								
Rodents								
Panels Labeled Properly		·····						
Panel Lights								
Annunciator Panel								
Panel Meters								
SCADA System RTU								
SCADA Alarms								
Position Indicators Agree								
Relay Target Information								
Emergency Contact Directory &							1	
Dialtone for Phone								
Safety Equipment								.1
BATTERY	RATING:	0	1	2	3	4	(Circle One)	Γ
Liquid Levels						_ 		
Proper Float Voltage on Charger & Battery								
Specific Gravity in Pilot Cell								
Personal Protective Equipment						.		-
Connection Corrosion						·		+
Leaking Cells								
Dated Solution in Eyewash Station								
	<u> </u>						1	1
YARD & FENCE	RATING:	0	1	2	3	4	(Circle One)	
Fire Extinguisher Charged								
Fence Ground Connections								
Fence Secured								
Security and Emergency Lights								
Site Base and Grade								
Standing Water								
Warning Signs								

X Substation - Annual Inspection Guide

- Check equipment for level
- Check condition of concrete pads
- Perform oil and DGA analysis
- Battery

 - ✓ Intercell strap resistance ✓ Individual cell voltages
 - ✓ Cell specific gravity
- Nameplate legible
- Equipment paint condition
- Proper equipment ID labels
- IR / RFI scans and checks

ANNUAL SUBSTATION INSPECTION FORM

Date		Jusp	sected by					Substation		
		SUBS	SUBSTATION INSPECTION CRITERIA	TION CI	RITER!	4		COMMENTS	MAINTENANCE COMPLETED	E CE
EQUIPMENT LISTING	Check equipment for level	Check condition of concrete pads	Perform oil and DGA analysis Battery checks - Intercell strap resistance, Individual cell voltages, Cell specific gravity	Nameplate legible	Equipment paint condition	Proper identification labels	IK / KEI scans and checks	Rating Criteria 0) Good Condition 1) Good Condition but aging 2) Non-critical Maintenance Required 3) Priority Maintenance Required 4) Urgent Maintenace Required	Date Item Corrected	Corrected By
Transformer	-									
LTC or regulators				*****						
High Voltage Breaker		<u> </u>								
				para es			ļ			
Feeder CBs / Reclosers			And the second s							
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Switches		Bur wind	Residence of the second							
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Transmission line RFI		and the state of t	And the second of the second o							

XI TRANSMISSION - ANNUAL INSPECTION GUIDE

STRUCTURE

- Pole Condition
- Pole Leaning
- Crossarm Condition
- Insulators, Deadend, Pin
- Excess Fill or Soil Removal
- Pole Steps
- Grounds Intact
- Ground Molding
- Down Guys
- Guy Markers
- Guy Bonding/Insulator
- Signage Location Number, Warning Sign
- Customer Equipment
- Conductor
- Tie Wires

EQUIPMENT

- Switches GOAB, Disconnect
 - ✓ Insulator Condition
 - ✓ Operating Handle/Locks
 - ✓ Linkage
 - ✓ Grounding/Bonding
 - ✓ Switch Number
- Arrestor
 - ✓ Insulator Condition
 - ✓ Connections

CLEARANCES

- Ground Line
- Buildings, Bridges, Etc.
- Communications Facilities
- Fuel Tanks
- Other Electric Utilities
- Over Streets, Roads, Alleys, Highways
- Tree Trimming
 - ✓ Clearance From Line
 - ✓ Vines on Poles
 - ✓ Danger Trees

XI TRANSMISSION - ANNUAL INSPECTION GUIDE (con't)

RFI CHECK

- Splices
- Connectors
- Dead Ends
- Switches
- Structures

XII TRANSMISSION – 5 YEAR INSPECTION GUIDE

<u>IR SCAN</u>

- Splices
- Connectors
- Dead Ends
- Switches

ANNUAL TRANSMISSION INSPECTION FORM

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Sub

Inspected by_

Date

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	Date Item Corrected																
	Date Item Co Corrected By																
COMMENTS	Rating Criteria 0) Good Condition 1) Good Condition 2) Non-critical Maintenance Required 3) Priority Maintenance Required 4) Urgent Maintenace Required																
	Communication Clearance												_				
밁	Streets, Roads, Alleys											_			$ \bot $		
4RAI	Building Clearances																
CLEARANCE	Ground Line Clearances																
	Tree Trimming																
MENT	Arresters																
EQUIPMENT	Switches																
	KFI Check																
	Conductor and Ties																
	Customer Equipment																
	Signs, Loc#, Warning																
쀴	Guy Bond, Insulator																
STRUCTURE	Down Guys and Markers																
	Grounds Intact, Molding																
STF	Pole Steps																
	Sonditions																
	Insulators, DE, Pin																
	Crossarm Condition																
	Pole Condition/Leaning				"												
MAP AREA	LOCATION																